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(54) **BIOMETRIC SENSING DEVICE WITH
DISCRETE ULTRASONIC TRANSDUCERS**

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See application file for complete search history.

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(57) **ABSTRACT**

A biometric sensing system includes discrete ultrasonic transducers, a first electrode layer disposed over a first surface of the discrete ultrasonic transducers, and a second electrode layer disposed over a second surface of the discrete ultrasonic transducers. The first electrode layer includes discrete electrode members. Each discrete electrode member spans two or more discrete ultrasonic transducers. The second electrode layer includes discrete electrode elements, with a discrete electrode element disposed over the second surface of one ultrasonic transducer. Drive circuitry is operably connected to the first electrode layer, and readout circuitry is operably connected to the second electrode layer.

20 Claims, 10 Drawing Sheets

